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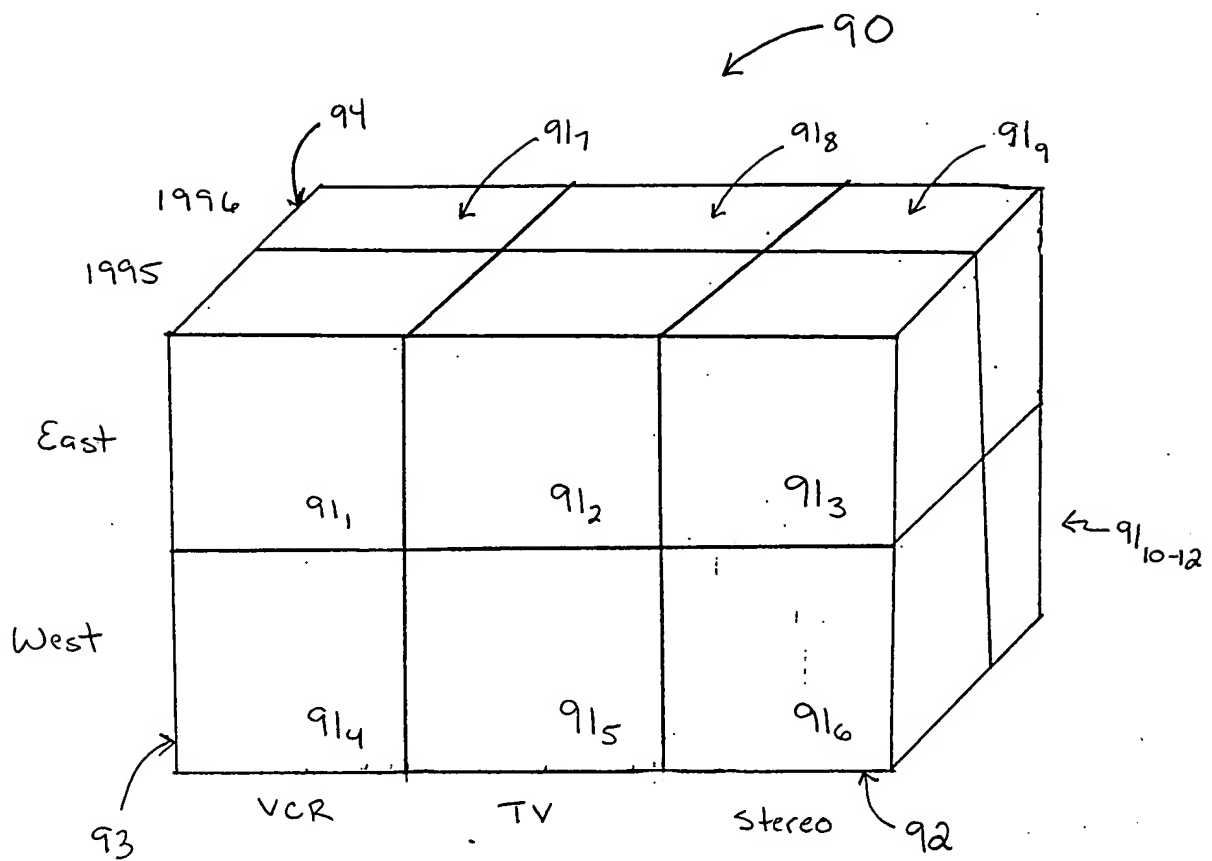


FIG. 1(a)

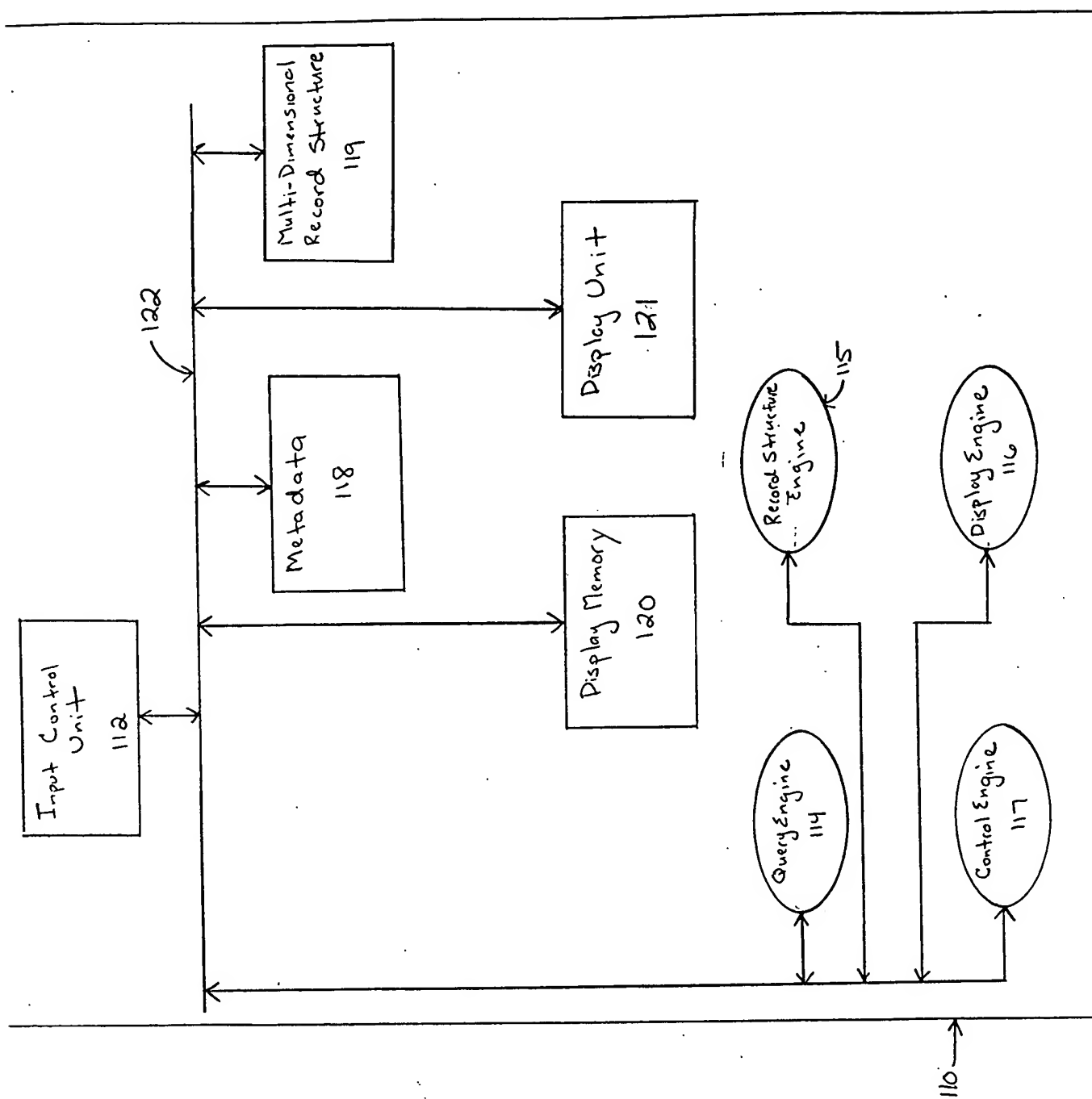
	1995			1996		
	VCR	TV	Stereo	VCR	TV	Stereo
East	101 ₁	101 ₂	101 ₃	101 ₇	101 ₈	101 ₉
West	101 ₄	101 ₅	101 ₆	101 ₁₀	101 ₁₁	101 ₁₂

100

103

104

FIG. 1(b)



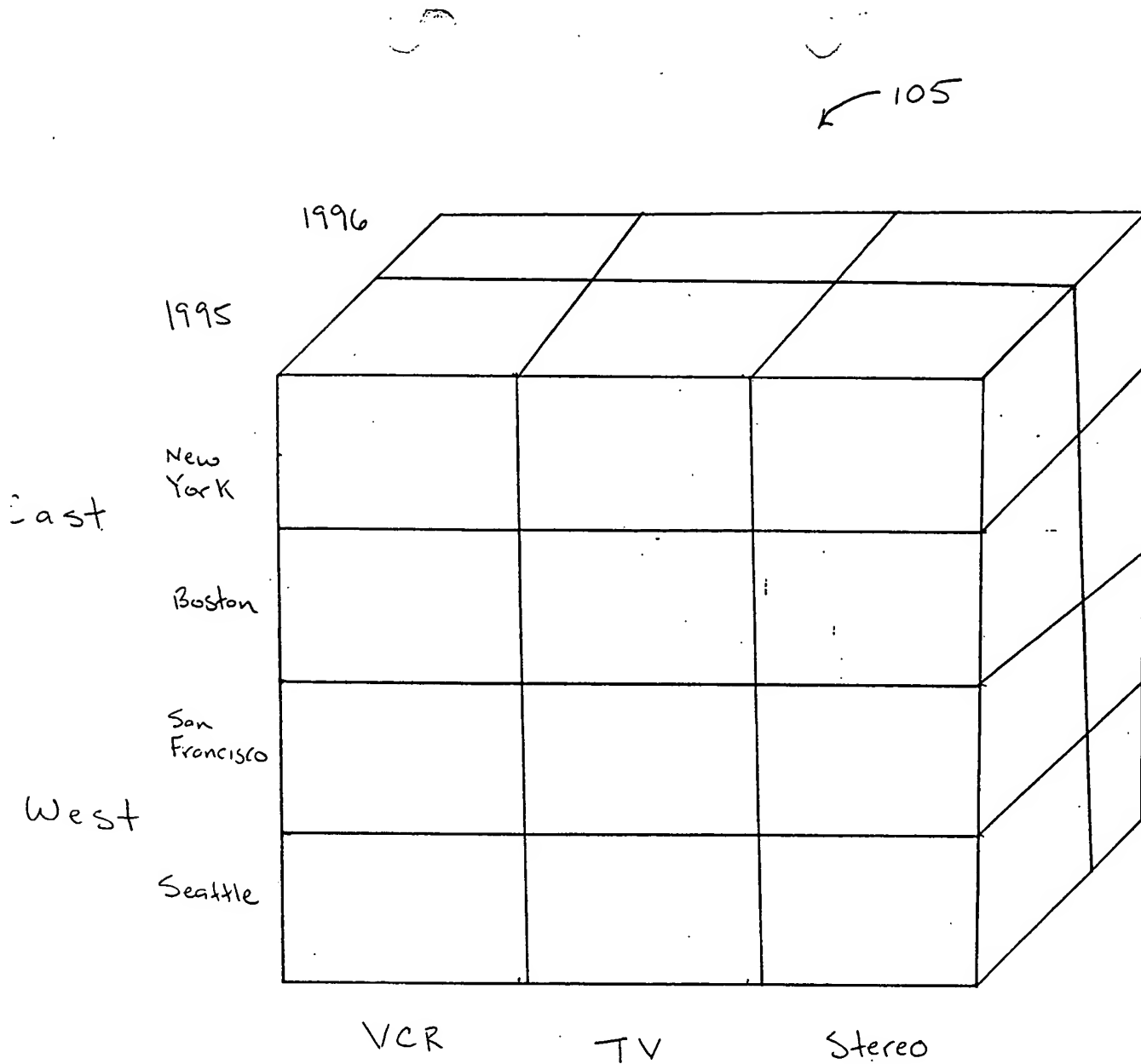


FIG. 3

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↙

	New York	Boston	San Francisco	Seattle
East				
West				

FIG. 4

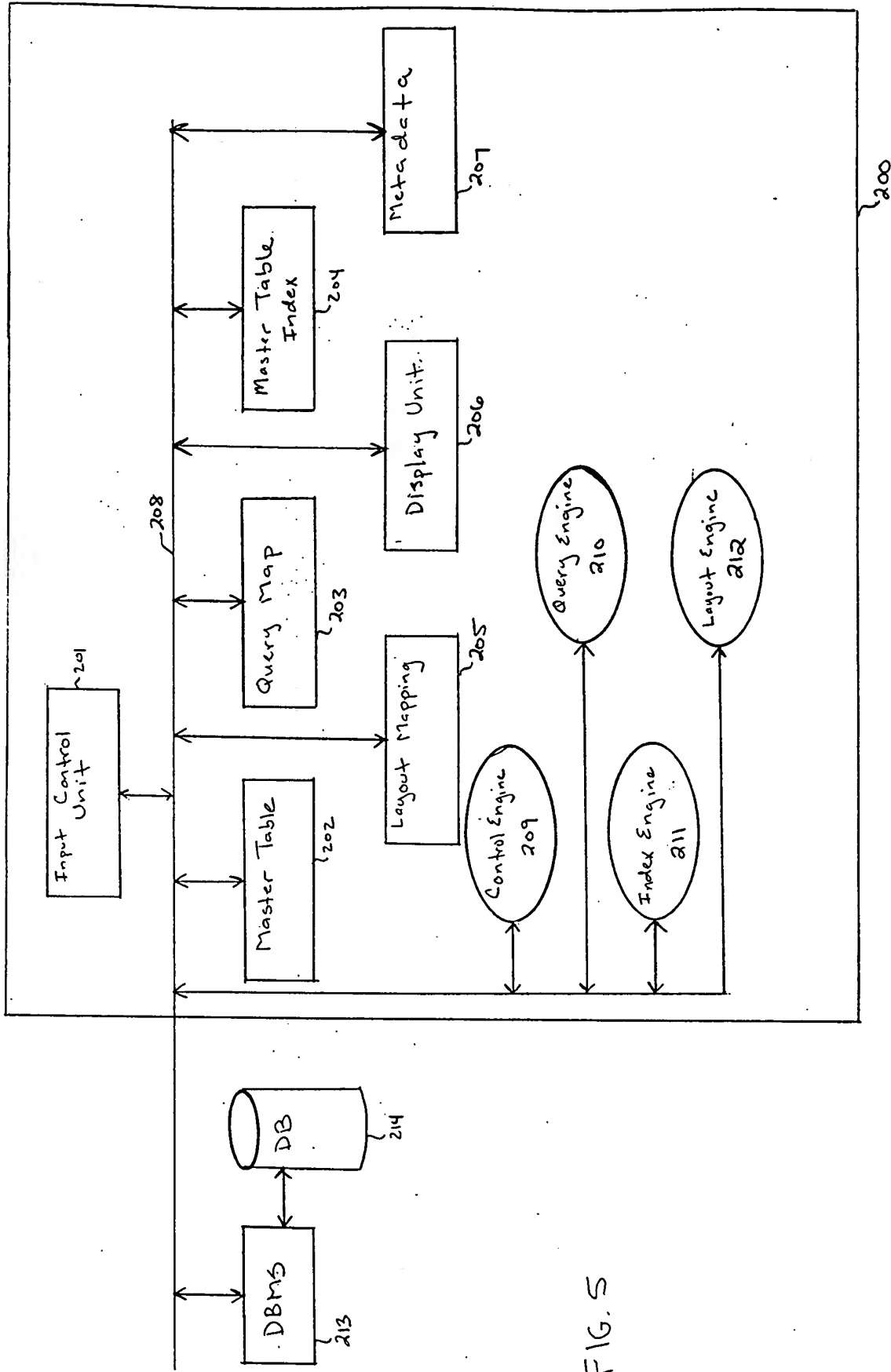


FIG. 5

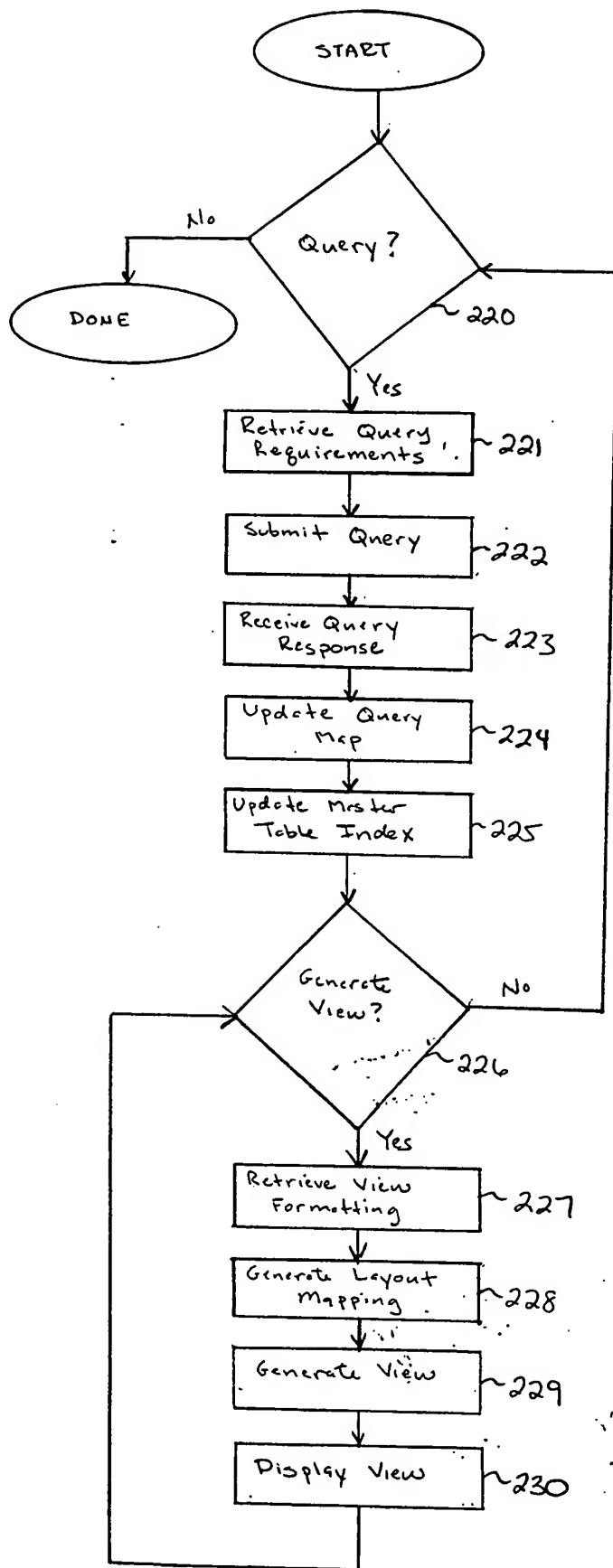


FIG. 6(a)

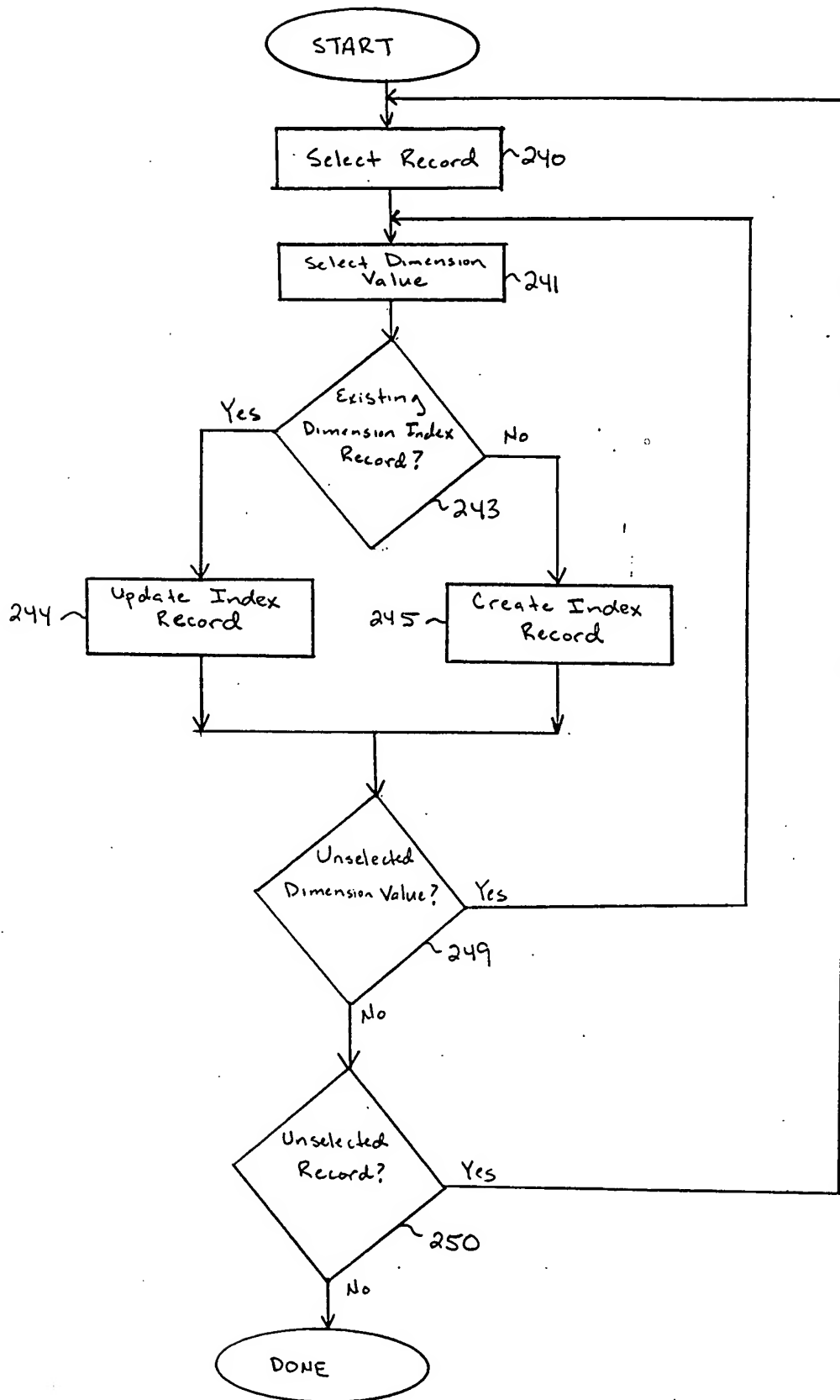


FIG. 6(b)

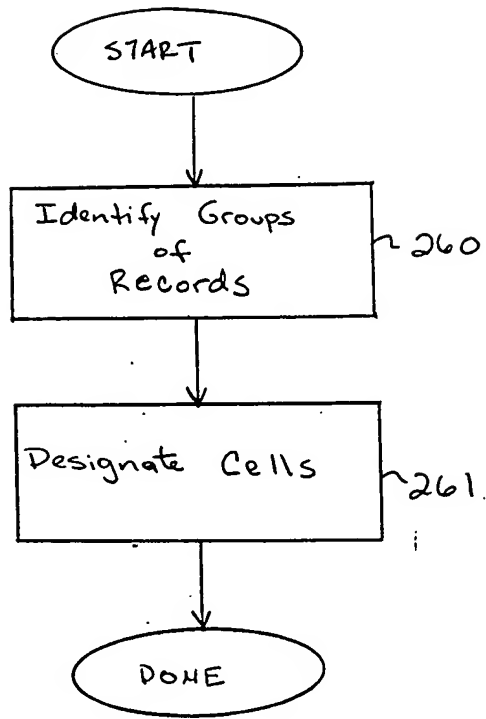


FIG. 6(C)

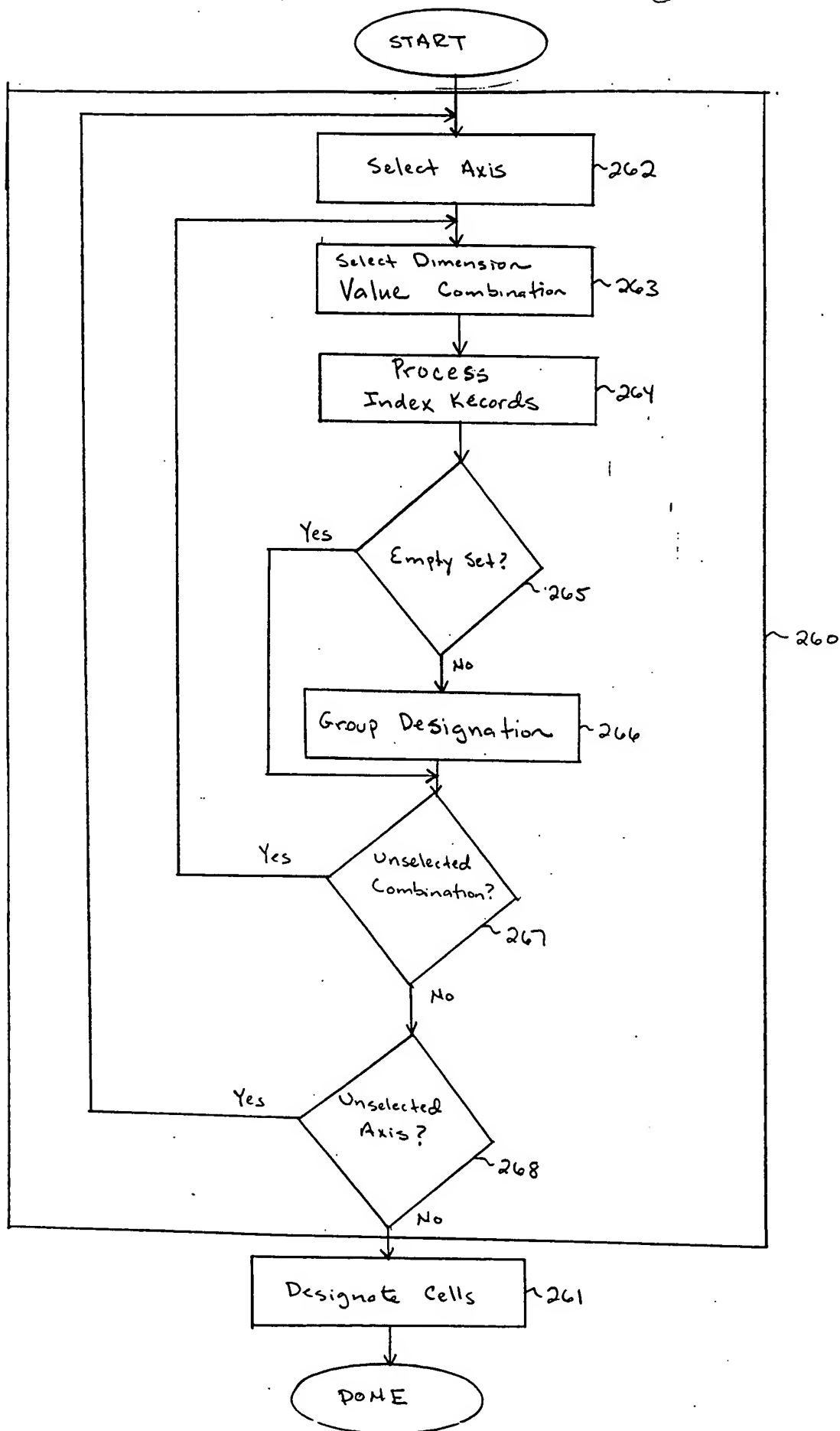


FIG. 6(d)

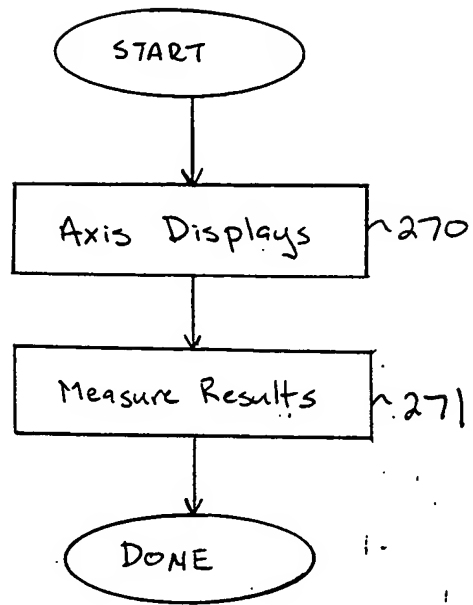


FIG. 6(e)

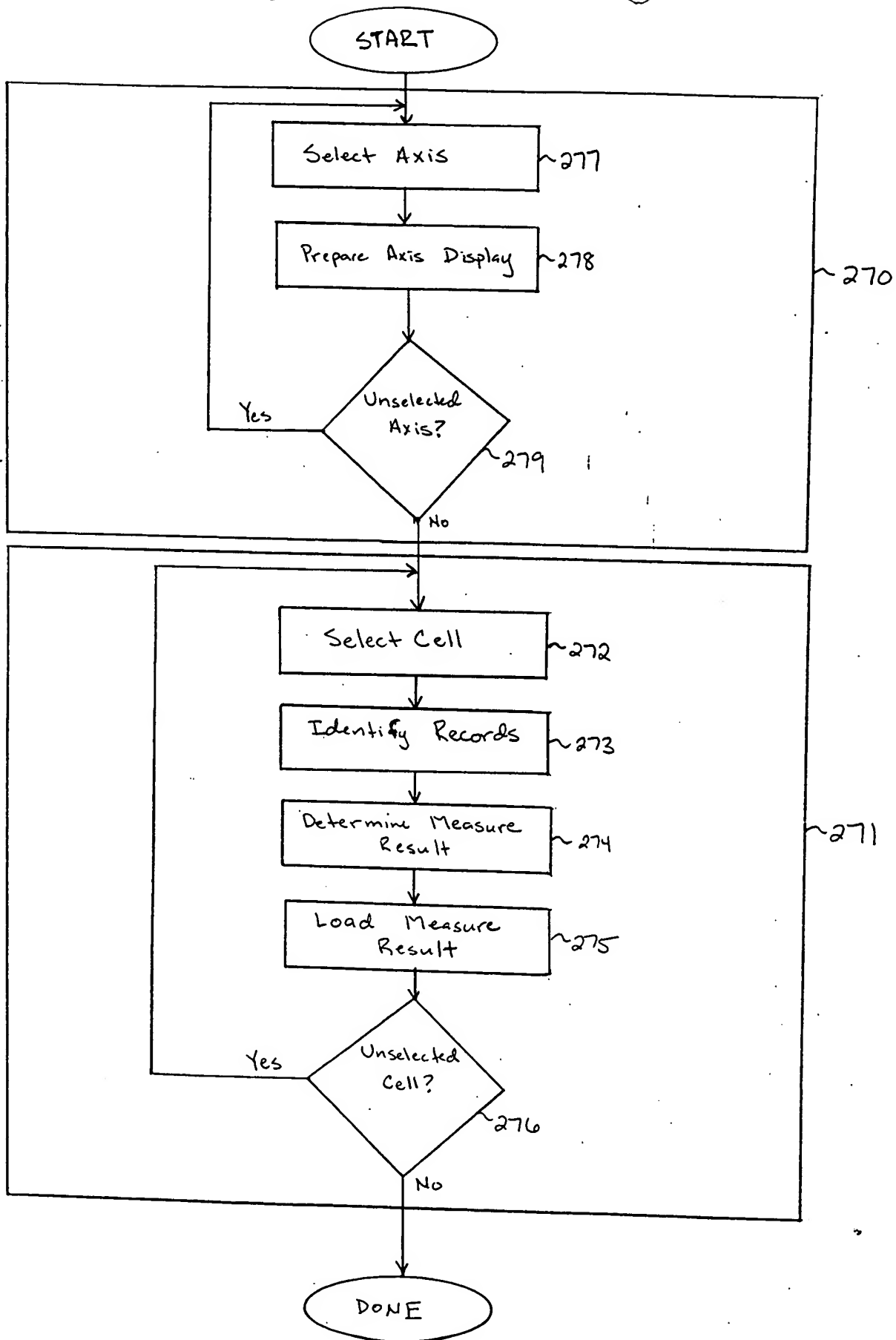


FIG. 6(f)

MASTER TABLE				
Q#: R#	Year	Region	Product	Sales(\$)
Q1: 1	1995	East	VCR	\$50,000
Q1: 2	1995	East	TV	\$40,000
Q1: 3	1995	West	VCR	\$50,000
Q1: 4	1995	West	TV	\$30,000
Q1: 5	1996	East	VCR	\$60,000
Q1: 6	1996	East	TV	\$50,000
Q1: 7	1996	East	Stereo	\$20,000
Q1: 8	1996	West	VCR	\$50,000
Q1: 9	1996	West	TV	\$40,000
Q1: 10	1996	West	Stereo	\$10,000

FIG. 7(a)

QUERY MAP	
Query 1	Year, Region, Product, Sales(\$)

FIG. 7(b)

MASTER TABLE INDEX		
Dimension	Dimension Value	Query: Records
Year	1995	Q1: 1-4
Year	1996	Q1: 5-10
Region	East	Q1: 1-2, 5-7
Region	West	Q1: 3-4, 8-10
Product	VCR	Q1: 1, 3, 5, 8
Product	TV	Q1: 2, 4, 6, 9
Product	Stereo	Q1: 7, 10

FIG. 7(c)

	Group 1H	Group 2H	Group 3H	Group 4H	Group 5H
Group 1V	332 ₁	332 ₂	332 ₃	332 ₄	332 ₅
Group 2V	332 ₆	332 ₇	332 ₈	332 ₉	332 ₁₀

FIG. 8

	1995		1996		
	VCR	TV	VCR	TV	Stereo
East	\$50,000	\$40,000	\$60,000	\$50,000	\$20,000
West	\$50,000	\$30,000	\$50,000	\$40,000	\$10,000

FIG. 9

MASTER TABLE						
Q#: R#	Year	Region	Product	Sales(\$)		
Q1: 1	1995	East	VCR	\$50,000	~301 ₁	
Q1: 2	1995	East	TV	\$40,000	~301 ₂	
Q1: 3	1995	West	VCR	\$50,000	~301 ₃	
Q1: 4	1995	West	TV	\$30,000	~301 ₄	
Q1: 5	1996	East	VCR	\$60,000	~301 ₅	
Q1: 6	1996	East	TV	\$50,000	~301 ₆	
Q1: 7	1996	East	Stereo	\$20,000	~301 ₇	
Q1: 8	1996	West	VCR	\$50,000	~301 ₈	
Q1: 9	1996	West	TV	\$40,000	~301 ₉	
Q1: 10	1996	West	Stereo	\$10,000	~301 ₁₀	
Q#: R#	Year	Region	Sales Office	Product	Sales(\$)	
Q2: 1	1995	East	New York	VCR	\$25,000	~302 ₁
Q2: 2	1995	East	Boston	VCR	\$25,000	~302 ₂
Q2: 3	1995	East	New York	TV	\$10,000	~302 ₃
Q2: 4	1995	East	Boston	TV	\$30,000	~302 ₄
Q2: 5	1996	East	New York	VCR	\$30,000	~302 ₅
Q2: 6	1996	East	Boston	VCR	\$20,000	~302 ₆
Q2: 7	1996	East	Philadelphia	VCR	\$10,000	~302 ₇
Q2: 8	1996	East	New York	TV	\$10,000	~302 ₈
Q2: 9	1996	East	Boston	TV	\$30,000	~302 ₉
Q2: 10	1996	East	Philadelphia	TV	\$10,000	~302 ₁₀
Q2: 11	1996	East	New York	Stereo	\$10,000	~302 ₁₁
Q2: 12	1996	East	Boston	Stereo	\$5,000	~302 ₁₂
Q2: 13	1996	East	Philadelphia	Stereo	\$5,000	~302 ₁₃

FIG. 10(a)

QUERY MAP	
Query 1	Year, Region, Product, Sales(\$)
Query 2	Year, Region (East), Sales Office, Product, Sales(\$)

FIG. 10(b)

MASTER TABLE INDEX		
Dimension	Dimension Value	Query: Records
Year	1995	Q1: 1-4 Q2: 1-4
Year	1996	Q1: 5-10 Q2: 5-13
Region	East	Q1: 1-2, 5-7 Q2: 1-13
Region	West	Q1: 3-4, 8-10
Product	VCR	Q1: 1, 3, 5, 8 Q2: 1-2, 5-7
Product	TV	Q1: 2, 4, 6, 9 Q2: 3-4, 8-10
Product	Stereo	Q1: 7, 10 Q2: 11-13
Sales Office	New York	Q2: 1, 3, 5, 8, 11
Sales Office	Boston	Q2: 2, 4, 6, 9, 12
Sales Office	Philadelphia	Q2: 7, 10, 13

FIG. 10(c)

341
↓

	Group 1H	Group 2H	Group 3H	Group 4H	Group 5H
Group 1V	342 ₁	342 ₂	342 ₃	342 ₄	342 ₅
Group 2V	342 ₆	342 ₇	342 ₈	342 ₉	342 ₁₀
Group 3V	342 ₁₁	342 ₁₂	342 ₁₃	342 ₁₄	342 ₁₅

← 340

FIG. 11

344
↓

		1995		1996		
		VCR	TV	VCR	TV	Stereo
East	New York	\$25,000	\$10,000	\$30,000	\$10,000	\$10,000
	Boston	\$25,000	\$30,000	\$20,000	\$30,000	\$5,000
	Philadelphia	N/A	N/A	\$10,000	\$10,000	\$5,000
West		\$50,000	\$30,000	\$50,000	\$40,000	\$10,000

← 343

FIG. 12

351
↓

	Group 1H	Group 2H
Group 1V	352 ₁	352 ₂
Group 2V	352 ₃	352 ₄

← 350

FIG. 13

354
↓

		1995	
		VCR	TV
East		\$50,000	\$40,000
West		\$50,000	\$30,000

← 353

FIG. 14

MASTER TABLE						
Q#: R#	Year	Region	Product	Sales (\$)		
Q1: 1	1995	East	VCR	\$50,000	~301 ₁	
Q1: 2	1995	East	TV	\$40,000	~301 ₂	
Q1: 3	1995	West	VCR	\$50,000	~301 ₃	
Q1: 4	1995	West	TV	\$30,000	~301 ₄	
Q1: 5	1996	East	VCR	\$60,000	~301 ₅	
Q1: 6	1996	East	TV	\$50,000	~301 ₆	
Q1: 7	1996	East	Stereo	\$20,000	~301 ₇	
Q1: 8	1996	West	VCR	\$50,000	~301 ₈	
Q1: 9	1996	West	TV	\$40,000	~301 ₉	
Q1: 10	1996	West	Stereo	\$10,000	~301 ₁₀	
Q#: R#	Year	Region	Sales Office	Product	Sales(\$)	
Q2: 1	1995	East	New York	VCR	\$25,000	~302 ₁
Q2: 2	1995	East	Boston	VCR	\$25,000	~302 ₂
Q2: 3	1995	East	New York	TV	\$10,000	~302 ₃
Q2: 4	1995	East	Boston	TV	\$30,000	~302 ₄
Q2: 5	1996	East	New York	VCR	\$30,000	~302 ₅
Q2: 6	1996	East	Boston	VCR	\$20,000	~302 ₆
Q2: 7	1996	East	Philadelphia	VCR	\$10,000	~302 ₇
Q2: 8	1996	East	New York	TV	\$10,000	~302 ₈
Q2: 9	1996	East	Boston	TV	\$30,000	~302 ₉
Q2: 10	1996	East	Philadelphia	TV	\$10,000	~302 ₁₀
Q2: 11	1996	East	New York	Stereo	\$10,000	~302 ₁₁
Q2: 12	1996	East	Boston	Stereo	\$5,000	~302 ₁₂
Q2: 13	1996	East	Philadelphia	Stereo	\$5,000	~302 ₁₃

FIG. 15(a) (Part 1)

MASTER TABLE (CONTINUED)						
Q#: R#	Region	Year	Fiscal Period	Sales(\$)	Sales(U)	
Q3: 1	East	1995	P1	\$20,000	100	~303 ₁
Q3: 2	East	1995	P2	\$30,000	150	~303 ₂
Q3: 3	East	1995	P3	\$20,000	100	~303 ₃
Q3: 4	East	1995	P4	\$20,000	100	~303 ₄
Q3: 5	West	1995	P1	\$10,000	50	~303 ₅
Q3: 6	West	1995	P2	\$20,000	100	~303 ₆
Q3: 7	West	1995	P3	\$30,000	150	~303 ₇
Q3: 8	West	1995	P4	\$20,000	100	~303 ₈
Q3: 9	East	1996	P1	\$30,000	150	~303 ₉
Q3: 10	East	1996	P2	\$40,000	200	~303 ₁₀
Q3: 11	East	1996	P3	\$30,000	150	~303 ₁₁
Q3: 12	East	1996	P4	\$30,000	150	~303 ₁₂
Q3: 13	West	1996	P1	\$20,000	100	~303 ₁₃
Q3: 14	West	1996	P2	\$30,000	150	~303 ₁₄
Q3: 15	West	1996	P3	\$30,000	150	~303 ₁₅
Q3: 16	West	1996	P4	\$20,000	100	~303 ₁₆

FIG. 15(a) (Part 2)

QUERY MAP		
Query 1	Year, Region, Product, Sales(\$)	~311
Query 2	Year, Region, Product, Sales Office, Sales(\$)	~312
Query 3	Region, Year, Fiscal Period, Sales(\$), Sales(U)	~313

FIG. 15(b)

MASTER TABLE INDEX		
Dimension	Dimension Value	Query: Records
Year	1995	Q1: 1-4 Q2: 1-4 Q3: 1-8
Year	1996	Q1: 5-10 Q2: 5-13 Q3: 9-16
Region	East	Q1: 1-2, 5-7 Q2: 1-13 Q3: 1-4, 9-12
Region	West	Q1: 3-4, 8-10 Q3: 5-8, 13-16
Product	VCR	Q1: 1, 3, 5, 8 Q2: 1-2, 5-7
Product	TV	Q1: 2, 4, 6, 9 Q2: 3-4, 8-10
Product	Stereo	Q1: 7, 10 Q2: 11-13
Sales Office	New York	Q2: 1, 3, 5, 8, 11
Sales Office	Boston	Q2: 2, 4, 6, 9, 12
Sales Office	Philadelphia	Q2: 7, 10, 13
Fiscal Period	P1	Q3: 1, 5, 9, 13
Fiscal Period	P2	Q3: 2, 6, 10, 14
Fiscal Period	P3	Q3: 3, 7, 11, 15
Fiscal Period	P4	Q3: 4, 8, 12, 16

FIG. 15(c)

361



	Group 1H	Group 2H	Group 3H	Group 4H	Group 5H	Group 6H	Group 7H	Group 8H	← 365
Group 1V	362 ₁	362 ₂	362 ₃	362 ₄	362 ₅	362 ₆	362 ₇	362 ₈	
Group 2V	362 ₉	362 ₁₀	362 ₁₁	362 ₁₂	362 ₁₃	362 ₁₄	362 ₁₅	362 ₁₆	

FIG. 16

364



		1995				1996				← 363
		P1	P2	P3	P4	P1	P2	P3	P4	
East	Sales(\$)	\$20,000	\$30,000	\$20,000	\$20,000	\$30,000	\$40,000	\$30,000	\$30,000	
	Sales(U)	100 U	150 U	100 U	100 U	150 U	200 U	150 U	150 U	
West	Sales(\$)	\$10,000	\$20,000	\$30,000	\$20,000	\$20,000	\$30,000	\$30,000	\$20,000	
	Sales(U)	50 U	100 U	150 U	100 U	100 U	150 U	150 U	100 U	

FIG. 17

371
↓

	Group 1H	Group 2H
Group 1V	372 ₁	372 ₂
Group 2V	372 ₃	372 ₄
Group 3V	372 ₅	372 ₆
Group 4V	372 ₇	372 ₈

← 370

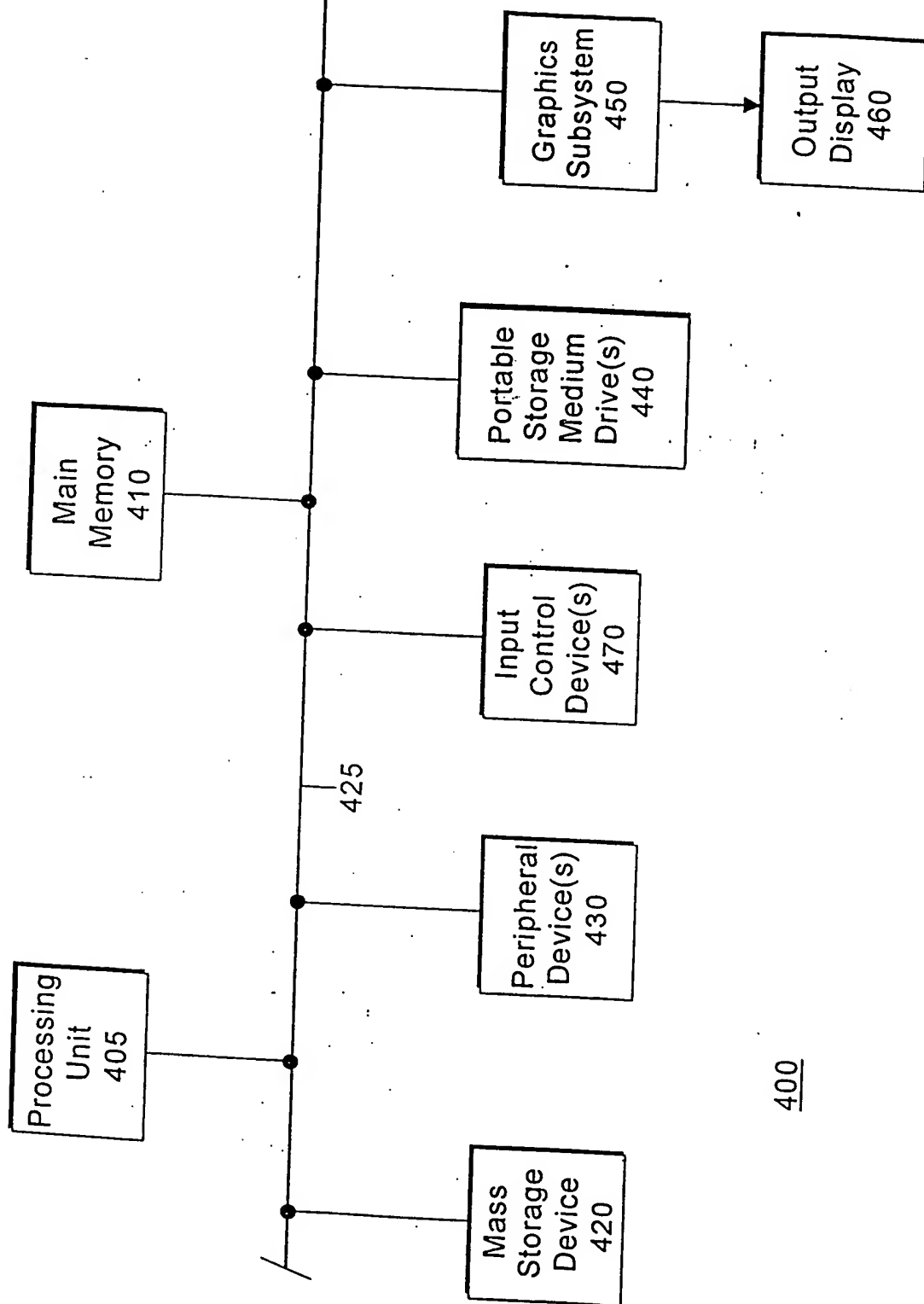
FIG. 18

374
↓

	1995	1996
P1	\$30,000	\$50,000
P2	\$50,000	\$70,000
P3	\$50,000	\$60,000
P4	\$40,000	\$50,000

← 373

FIG. 19



400

FIG. 20